



## ***Biotinylated Anti-human CD43 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF2038

**Lot Number:** KQF01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human CD43 extracellular  
domain

**Immunogen:** NS0-derived rhCD43  
extracellular domain

**Ig Type:** goat IgG

**Applications:** Western blot  
Flow cytometry

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant human CD43 (rhCD43). Human CD43 specific IgG was purified by human CD43 affinity chromatography and then biotinylated. CD43 (leukosialin, sialophorin, also Ly-48 in mouse) is a type I transmembrane (TM) sialated mucin that is found on leukocytes and tumor cells. It is synthesized as a 397 amino acid (aa) precursor that contains a 19 aa signal sequence, a 234 aa extracellular region, a 23 aa TM domain, and a 123 aa cytoplasmic tail that contains an NLS. The extracellular region has 12% proline and 38% threonine and serine and shows both N- and O-linked glycosylation. Human CD43 extracellular region has less than 60% aa identity to the extracellular regions in rat and mouse.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in the applications listed below.

### ***Applications***

**Western Blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human CD43. The detection limit for rhCD43 is approximately 5 ng/lane under non-reducing and reducing conditions.

**Flow cytometry** - This antibody can be used at 3 - 10 µg/mL/10<sup>6</sup> cells with an appropriate secondary reagent for indirect immunofluorescence staining of cells by flow cytometry.

**Optimal dilutions should be determined by each laboratory for each application.**